

June 7, 2017

CETCI's FCS Flexible Control System Complies with California Title-24 Requirements

Delta, British Columbia, Canada – Critical Environment Technologies Canada Inc. (CETCI) is pleased to announce that the FCS now complies with California Title-24 requirements.

Title-24 is a California Building Standards Code that governs the design and construction of all building occupancies and associated facilities and equipment throughout California relating to fire, life safety, structural safety and access compliance.



The FCS offers an incredibly flexible control structure using alarm level settings, time of day settings, advanced logic, multiple priority levels per zone, etc. Special configurations for supporting California's Title-24 (2016) requirements can now be accommodated by the FCS. All required specification details need to be given at the time of order so our production team can configure the system appropriately.

Additional settings can be implemented in the field as required.

Title 24 Section 120.6 (c) requires that enclosed parking garages have the design and system to:

1. Detect contaminant levels and stage fans or modulate fan airflow rates to 50% or less of design capacity provided acceptable contaminant levels are maintained.
2. Have controls and/or devices that will result in fan motor demand of no more than 30% of design wattage at 50 percent of design airflow.
3. CO shall be monitored with at least 1 sensor per 5,000 ft², with sensor located in the highest expected concentration locations, with at least 2 sensors per zone.
4. CO concentration at all sensors is maintained at 25 ppm or less at all times.
5. The ventilation rate shall be at least 0.15 cfm.ft² when the garage is scheduled to be occupied.
6. System shall maintain the garage at negative or neutral pressure relative to other occupied spaces when the garage is scheduled to be occupied.
7. CO sensors shall be:
 - A. Certified by the manufacturer to be accurate within ±5% of measurement

- B. Factory calibrated
- C. Certified by the manufacturer to drift no more than 5% per year
- D. Certified by the manufacturer to require calibration no more frequently than once a year
- E. Monitored by control system that transmits:
 - An alarm to facility operator on fault detection
 - Resets to design ventilation rates on fault detection
 - Checks for and reports a sensor fault if:
 - Sensor not calibrated within the specified calibration period (once per year)
 - During unoccupied periods a sensor deviates from the average for the zone by more than ± 15 ppm for 4 hours.
 - During occupied periods a sensor's 30 minute rolling average deviates from the 30 minute rolling average of other sensors in the proximity zone.

For more information relating to Title-24 please consult the appropriate documents available on the California Building Standards Commission website <http://www.bsc.ca.gov/>

About Critical Environment Technologies Canada Inc.

Critical Environment Technologies designs and manufactures indoor air quality and fixed gas detection systems including self-contained systems, controllers and analog and digital transmitters. Applications include commercial HVAC, institutional, municipal and light industrial markets worldwide. Many of these applications are for vehicle exhaust, but areas of specialization include refrigeration applications, food processing plants, manufacturing plants, wastewater treatment plants, fisheries, wineries/breweries, pulp and paper mills, recreational facilities, bakeries, greenhouses, and many more.

For more information about our products, check out our website at www.critical-environment.com or to discuss a tailored gas detection solution for your application, contact us at 1-877-940-8741.

Contact person:

Rebecca Erickson, Marketing Manager
Critical Environment Technologies Canada Inc.
T: +1.604.940.8741 | E: rebecca@cetci.com